

QH
301
A52

ARCHIVES ITALIENNES DE BIOLOGIE

FONDÉES PAR A. MOSSO ET CONTINUÉES PAR V. ADUCCO

PUBLIÉES PAR G. MORUZZI

AVEC LE CONCOURS DU CONSIGLIO NAZIONALE DELLE RICERCHE

COMITÉ DE RÉDACTION

ALF BRODAL (Oslo)

RITA LEVI MONTALCINI (St. Louis)

M.G.F. FUORTES (Bethesda)

GIUSEPPE MORUZZI (Pisa)

MASAO ITO (Tokyo)

OTTAVIO POMPEIANO (Pisa)

YVES LAPORTE (Toulouse)

JAMES M. SPRAGUE (Philadelphia)

CARLO TERZUOLO (Minneapolis)

TOME 110

1972

PISA

UNIVERSITÀ DEGLI STUDI

Rédaction: *Via S. Zeno, 31 - 56100 Pisa (Italie).*

Administration: « *Archives italiennes de Biologie* » - Università - Lungarno
A. Pacinotti, 43 - 56100 Pisa (Italie).

Imprimerie: « *E. Ariani* » e « *L'Arte della Stampa* » - 50135 Firenze (Italie).

TABLES DES MATIÈRES

FASCICULE 1, MAI 1972

1. Extraocular muscle inhibitory stretch reflex during active contraction. P. BACH-Y-RITA	Pag. 1
2. The identification of a flash-inhibiting substance from the male gonads of « <i>Luciola lusitanica</i> » (Charp.). P. BAGNOLI, M. BRUNELLI, F. MAGNI and M. VIOLA	16
3. A fast conducting pathway in the central nervous system of the leech « <i>Hirudo medicinalis</i> ». P. BAGNOLI, M. BRUNELLI and F. MAGNI	35
4. Analysis of the antigravitary tonic activity in the sleep-wakefulness cycle. S. GIAQUINTO and F. VENTRIGLIA	52
5. The relative significance of presynaptic and postsynaptic effects on monosynaptic extensor reflexes during vibration of synergic muscles. P. C. MAGHERINI, O. POMPEIANO and U. THODEN	70
6. Evidence that presynaptic inhibition may decrease the autogenetic excitation caused by vibration of extensor muscles. U. THODEN, P. C. MAGHERINI and O. POMPEIANO	90
ANALYSES	117

FASCICULE 2, JUILLET 1972

1. The corticopontine projection in the cat. The projection from the auditory cortex. P. BRODAL	Pag. 119
2. Electrophysiological studies of the echidna, « <i>Tachyglossus aculeatus</i> ». I. Waking and sleep. T. ALLISON, H. VAN TWYVER and W. R. GOFF	145
3. Electrophysiological studies of the echidna, « <i>Tachyglossus aculeatus</i> ». II. Dormancy and hibernation. T. ALLISON and H. VAN TWYVER	185

4. Electrophysiological studies of the echidna, «Tachyglossus aculeatus». III. Sensory and interhemispheric evoked responses. T. ALLISON and W. R. GOFF pag. 195
5. Electrical stimulation of vestibular nuclei: effects on spontaneous activity of lateral geniculate nucleus neurones. J. PA-PAIOANNOU 217
6. Cholinergic mechanisms related to REM sleep. I. Rhythmic activity of the vestibulo-oculomotor system induced by an anticholinesterase in the decerebrate cat. P. C. MACHERINI, O. POMPEIANO and U. THODEN 234
7. Cholinergic mechanisms related to REM sleep. II. Effects of an anticholinesterase on the discharge of central vestibular neurons in the decerebrate cat. U. THODEN, P. C. MACHERINI and O. POMPEIANO 260

FASCICULE 3, OCTOBRE 1972

1. Brain stem influences on waking and sleep behaviors in the pigeon. M. BRUNELLI, F. MAGNI, G. MORUZZI and D. MUMSUMECI Pag. 285
2. Response patterns of somatosensory cortical neurones to peripheral stimuli. An intracellular study. G. M. INNOCENTI and T. MANZONI 322
3. Sleep-wakefulness, EEG and behavioral studies of chronic cats without neocortex and striatum: the 'diencephalic' cat. J. VILLABLANCA and R. MARCUS 348
4. Sleep-wakefulness, EEG and behavioral studies of chronic cats without the thalamus: the 'athalamic' cat. J. VILLABLANCA and M. E. SALINAS-ZEBALLOS 383
- ANALYSES 412

FASCICULE 4, DÉCEMBRE 1972

1. Peripheral and transcallosal reactivity of neurones within SI and SII cortical areas. Segmental divisions. G. M. INNOCENTI, T. MANZONI and G. SPIDALIERI Pag. 415
2. Peripheral and transcallosal reactivity of neurones sampled from the face subdivision of the SI cortical area. E. FADIGA, G. M. INNOCENTI, T. MANZONI and G. SPIDALIERI 444

3. The effect of stimulation of spindle receptors and Golgi tendon organs on the cerebellar anterior lobe. I. Field potentials induced by sinusoidal stretch or contraction of hindlimb extensor muscles. G. IOSIF, O. POMPEIANO, P. STRATA and U. THODEN	pag. 476
4. The effect of stimulation of spindle receptors and Golgi tendon organs on the cerebellar anterior lobe. II. Responses of Purkinje cells to sinusoidal stretch or contraction of hindlimb extensor muscles. G. IOSIF, O. POMPEIANO, P. STRATA and U. THODEN	502
ANALYSES	543

